



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

| | |
|------------------------|-------------------|
| Application Number | 08/962,971 |
| Filing Date | 10/27/1997 |
| First Named Inventor | NABIL GHALY |
| Art Unit | 3713 |
| Examiner Name | JULIE K. BROCKETT |
| Attorney Docket Number | |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| ALL | P1 | US- 3,367,653 | 02-06-1968 | Brown | Abstract |
| | P2 | US- 3,417,995 | 12-24-1968 | Creely | Abstract |
| | P3 | US- 3,779,553 | 12-18-1973 | Secter | Abstract |
| | P4 | US- 3,982,764 | 09-28-1976 | Dieball | Abstract |
| | P5 | US- 5,573,245 | 11-12-1996 | Weiner, et al | claim 1 |
| | P6 | US- 5,603,500 | 02-18-1997 | olti, et al. | claim 1 |
| | P7 | US- 6,976,916 | 12-20-2005 | Rural, et al. | Title & Background |
| | P8 | US- 6,507,568 | 07-19-2005 | Schlieffers, et al. | Title, claim & Fig. 1 |
| | P9 | US- 6,861,962 | 03-01-2005 | Spencer | Abstract & claim 1 |
| | P10 | US- 6,948,869 | 09-27-2005 | Macor | Title, Abstract & claim 1 |
| | P11 | US- 6,989,732 | 01-24-2006 | Fisher | Abstract & claim 1 |
| | P12 | US- 6,920,339 | 07-19-2005 | choy, et al. | Title, Abstract & claim 1 |
| | P13 | US- 6,922,280 | 06-28-2005 | Henry | Title, Abstract & claims 1-4 |
| | P14 | US- 6,950,680 | 09-27-2005 | Kela, et al. | Abstract, claim 1, Figs. 1 & 2 |
| | P15 | US- 6,968,206 | 11-22-2005 | Whitney-Anderson | claim 1, Figures 1 & 6 |
| | P16 | US- 6,930,260 | 08-16-2005 | Cleary, et al. | Abstract, claim 1, Fig. 1 |
| | | US- | | | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T* |
|-----------------------|--------------------------|---|--------------------------------|--|---|----|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Examiner
Signature

Date
Considered

7/27/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with need communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08b (07-05)
Approved for use through 06/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 144984PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

Attorney Docket Number

Complete if Known

Application Number

08/962,971

Filing Date

6/27/1997

First Named Inventor

NARIL N. GHALY

Art Unit

3713

Examiner Name

Julie K. Brokehi

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| RL | I1 | Internet Document- http://new.arcusa-inc.com/8427/index.html - ARC-USA, Inc. - Keypads | |
| | I2 | Internet Document- www.nyx.net/~LTURNER/PUBLIC-HTML/TMS1000INS.HTML - Instruction set for Texas Instruments TMS1000 | |
| | I3 | Internet Document- http://www.cacs.louisiana.edu/~mgr/404/burks/pcinfo/hardware/cpu.htm - Description of the Texas Instrument TMS1000 micro-controller, indicating the use of "hardwired" instructions | |
| | I4 | Text Book: Digital Systems Logic and Circuits Author: B. ZACHAROV Publisher: American Elsevier Pub. Co., Inc. 1968 Pages 53-83 - show the symbol \odot describing the Coincidence Boolean operator $\bar{A}\bar{B} + AB$ | |
| N | I5 | Text Book: Digital Design, 2nd Edition Author: M. MORRIS MANO Publisher: Prentice Hall, 1991 - New Jersey Pages 56-57 - show the symbol \odot describing the | |

Examiner Signature

RL

Date

Considered

7/27/08

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08b (07-05)

Approved for use through 06/30/2008. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Substitute for USPTO Form PTO/SB/08b

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

Complete If Known

| | |
|------------------------|-------------------|
| Application Number | 08/962,971 |
| Filing Date | 10/27/1997 |
| First Named Inventor | NABIL N. GHALY |
| Art Unit | 3713 |
| Examiner Name | Julie K. Brockett |
| Attorney Docket Number | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| <i>ML</i> | | equivalence Boolean operator $x'y + x'y'$ | |
| | I6 | Text Book: Digital Computer Design Fundamentals Author: JOAHAN CHU Publisher: McGraw-Hill, 1962 Pages 112-113 - show the symbol \odot describing the Coincidence Boolean operator $\overline{A}\overline{B} + AB$ | |
| | I7 | Dictionary Definition for the term "Keypad" Webster's New World College Dictionary, Fourth Edition - Page 785 MICHAEL AGNES, Editor in Chief | |
| | I8 | Internet Document: https://patentlaw.typepad.com/patent/2004/10/can_dependant_c.html Article dated October 13, 2004, analyzing Ghaly v. Harbro - By DENNIS CROUCH | |
| <i>W</i> | I9 | Dictionary Definition of the term "Push Button" Random House Webster's College Dictionary Page 1097 | |

Examiner
Signature

ML

Date
Considered

7/27/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2